

WHAT IS CLAIMED IS:

1. A vehicle AC generator comprising:
a bracket having an opening;
a cylindrical insulating bush mounted on the opening;
an output terminal bolt inserted through the insulating bush to project out of the bracket and fixed to the bracket;
a fastening nut capable of being screwed onto the output terminal bolt to mount a vehicle side connecting terminal; and
a bush provided between the insulating bush and the vehicle side connecting terminal by being fitted onto the output terminal bolt,

wherein the fastening nut is screwed onto a screw part on a take-out end part side of the output terminal bolt so that the vehicle side connecting terminal is held between the bush and the fastening nut.

2. The vehicle AC generator according to claim 1, wherein the bush having:

a bushing part loosely fitted onto the output terminal bolt; and

a fixed part fixed to the output terminal bolt on the opposite side of the vehicle side connecting terminal of the bushing part.

3. A vehicle AC generator comprising:

a bracket having a first opening;

a cylindrical projecting part formed on the bracket projecting to surround the first opening, the cylindrical projecting part having a second opening at the projecting end;

a cylindrical first insulating bush mounted on the first opening;

a cylindrical second insulating bush mounted on the second opening;

an output terminal bolt inserting through the first and second insulating bushes to project out of the bracket, the output terminal bolt fixed to the bracket;

a fastening nut capable of being screwed onto the output terminal bolt to mount a vehicle side connecting terminal; and

a bush provided between the first insulating bush and the vehicle side connecting terminal by being fitted onto the output terminal bolt, the bush having a bushing part loosely fitted onto the output terminal bolt and a fixed part fixed to the output terminal bolt between the first insulating bush and the second insulating bush,

wherein the fastening nut is screwed onto a screw part on a take-out end part side of the output terminal bolt so that the vehicle side connecting terminal is held between the bushing and the fastening nut.

4. The vehicle AC generator according to claim 1,

further comprising:

- a rotor rotatably supported by the bracket;

- a stator fixed to the bracket to surround the rotor on the peripheral side of the rotor;

- a rectifier including:

 - a first cooling plate having a plurality of first diodes, the first cooling plate fixed to the bracket;
 - and

 - a second cooling plate having a plurality of second diodes whose polarity are different from that of the first diodes, the second cooling plate fixed to the bracket

wherein the bracket is made of metal.

5. The vehicle AC generator according to claim 2, further comprising:

- a rotor rotatably supported by the bracket;

- a stator fixed to the bracket to surround the rotor on the peripheral side of the rotor;

- a rectifier including:

 - a first cooling plate having a plurality of first diodes, the first cooling plate fixed to the bracket;
 - and

 - a second cooling plate having a plurality of second diodes whose polarity are different from that of the

first diodes, the second cooling plate fixed to the bracket
wherein the bracket is made of metal.

6. The vehicle AC generator according to claim 3, further comprising:

a rotor rotatably supported by the bracket;
a stator fixed to the bracket to surround the rotor on the peripheral side of the rotor;
a rectifier including:

a first cooling plate having a plurality of first diodes, the first cooling plate fixed to the bracket;
and

a second cooling plate having a plurality of second diodes whose polarity are different from that of the first diodes, the second cooling plate fixed to the bracket

wherein the bracket is made of metal.

7. The vehicle AC generator according to claim 1, wherein a length of the bushing part is set to two times or more as large as an outside diameter of the output terminal bolt.

8. The vehicle AC generator according to claim 2,

wherein a length of the bushing part is set to two times or more as large as an outside diameter of the output terminal bolt.

9. The vehicle AC generator according to claim 3, wherein a length of the bushing part is set to two times or more as large as an outside diameter of the output terminal bolt.

10. The vehicle AC generator according to claim 4, wherein a length of the bushing part is set to two times or more as large as an outside diameter of the output terminal bolt.

11. The vehicle AC generator according to claim 2, wherein the fixed part is formed of a nut having a female screw.

12. The vehicle AC generator according to claim 3, wherein the fixed part is formed of a nut having a female screw.